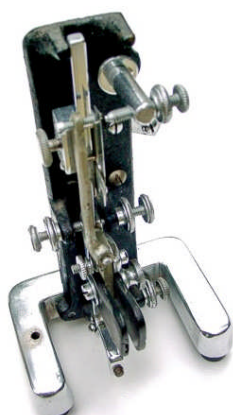


Friday August 18, 2023 7pm

License Testing 5:30pm

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Telegraph key of the Month: Upright Vibroplex (Manufactured 1917-1919)



AUGUST MEETING

"To PL or not to PL..." that is the question!

By Eric Dausman, KD7DNM



What is "PL" and when is it utilized? Broadcast engineer Eric Dausman, KD7DNM, explains how subaudible tones work in radio communications systems.

Eric Dausman is currently the SVP of RF Technology for Signal Infrastructure Group, established to develop, own, and operate a nationwide network of data distribution and cloud digital infrastructure assets. Eric is a 44 year veteran of the Television Broadcast industry working in local and network broadcast centers at companies such as NBC and Belo (now Tegna). In addition, he was the COO of Sutro Tower in San Francisco and managed one of the most complicated and expensive TV repack projects in the United States.

*Our in-person meeting will also be held virtually, via the Zoom video system. The meeting access ID and password will be distributed via groups.io email announcement. The meeting will also be shown on the club digital amateur television repeater, which is live streamed at: <http://w6cxatv.mdarc.org/> and also live streamed on YouTube on the **Media MDARC** channel.*



We have many accomplished and experienced club members. After all, we are an ARRL Special Service Club! The club is looking for amateur radio or communications topics that you or someone you know could present at a future club meeting.

An alternative might be several short presentations on different topics made by multiple persons.

Please direct your suggestions to our Programs Chair Charles M. King, K3CMK, at chask1234.ck@gmail.com.

Your contribution is vital for the continued success of MDARC. We are eager to hear from you!

ALL MEMBERS ARE INVITED TO JOIN THE FREE CLUB E-MAIL GROUP AT:

<https://groups.io/g/MDARC>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730 info@mdarc.org

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Ed Morales, KJ6KYT
Vice President - **vacant**
Secretary – Brian Lotter, KM6NGS
Treasurer - Gene Sylls, KG6EYE
Emergency Coordinator - Larry Loomer, KI6LNB

Directors At Large
 Trevor Hall, WA6JAU Cal Vasquez, K6VT
 Larry Bradley, KK6QPE Mike Warren, W6MEW

Membership Chair – Jan Kulisek, KM6NFC
mdarcmembership@mdarc.org

PACIFICON 2023
Chair: Julie Mah, WJ8MAH
Registration: Debbie Deeble, KN6DOM
Treasurer: Gene Sylls, KG6EYE
Secretary: Jeff Mah, N8MAH

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - **vacant**
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Programs - Charles M. King, K3CMK
Public Service - Larry Loomer, KI6LNB
Radio Equipment Lending - Cal Vasquez, K6VT
Refreshments - Elizabeth Styles, KG6HLV
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Tittle, K6SOE
Volunteer Classes - Dick Wade, WM6G
W6CX Repeater Trustee - Jim Tittle, K6SOE
W6LGW Callsign Trustee - Larry Loomer, KI6LNB

The Carrier Newsletter
Editor - Matthew G. Vurek, N4DLA
n4dla_cs245@yahoo.com
Proofreader - Larry Loomer, KI6LNB
Printing & Distribution - Jan Kulisek, KM6NFC
Digital Amateur Television Help and Information:
 Fred Coe, WB6ASU wb6asu@icloud.com

President's
Message

The Joy & Sorrow of Science

Like many of you, I went to the theater the weekend of July 21 to see the new film Oppenheimer. It was the first time in a long time that I sat in a sold-out movie theater. I watched the film on an IMAX screen in the movie house at the Veranda in Concord.

In my humble opinion, this film is a masterpiece. A phenomenal cast telling

a phenomenal story of a scientific genius leading other great scientists to develop the atomic bomb. Being a Cal alum, I was particularly intrigued with the scenes shot at the University of California at Berkeley. My major at Cal was chemistry; but I had a very big interest in physics and astronomy. Along with taking classes in chemistry, I took several classes in quantum mechanics, classical mechanics and astrophysics. I was reminded during the film that the language of science is still mathematics.

The movie is like a scientific fantasy world. For me, the characters on the screen only existed in textbooks. The film displayed many familiar and great names in the world of physics:

Einstein, Heisenberg, Bohr, Alvarez, Lawrence, Feynman, Fermi, Teller and Oppenheimer.

I was thinking back to when I was transitioning from high school to college. My late brother Roger Morales, may he rest in peace, worked and spent his career as a technical specialist at

Lawrence Livermore National Labs (LLNL) in Livermore, CA. Roger would often tell me about his work at LLNL. A couple of times, he actually would bring me there. I remember one time attending an open house at LLNL. Workers and their families were allowed to tour the un-secured areas of the lab.

I remember being there and seeing mockups of nuclear war heads. I also saw some of the early experiments of harnessing fusion for the benefit of mankind and not the destruction.

Edward Teller, the “father” of the hydrogen bomb, spent a lot of time at LLNL. I assumed that LLNL was his nuclear playground. One time, Dr. Teller was promoting a book about him at LLNL and my brother was there. He bought a book for me and Dr. Teller signed it mentioning my name. The only thing I had in common with Dr. Teller was his first name (actually my legal name is Eddy, which I hate).

I still have this book which I read years ago and forgot that I had it. Now after seeing this movie, I realized that I had a little piece of nuclear history.

That was the joy. Now for the sorrow. Even though I had so much respect and learned so much from the work of these scientists, they created the ultimate weapon for mass destruction that is still here today. Not to mention that we dropped two of these on Japan to end the war.

It is my hope that we, and any other nation with nuclear capability, do not use these terrible weapons again.

73,

Ed Morales, KJ6KYT, MDARC President

Proposed Changes to Our Club By-Laws

The MDARC Board of Directors and Staff and made some changes to the Club's By-laws. As required, the changes need the approval of the General Membership.

Please review the changes provided on the following pages in this issue of *The Carrier*. Note that there are many grammatical corrections and several formatting changes.

The material changes can be found in Article VI – ELECTION COMMITTEE. Please take the time to review the existing By-Laws on the MDARC website and compare them to the proposed changes.

We will take a vote for the approval at the next General Membership meeting on August 18, 2023. Votes will be collected from those in attendance at this meeting.

If you have any questions or comments, feel free to reach out to me or any of the board members.

Thanks for your cooperation.

73

Ed Morales, KJ6KYT, MDARC President



Bylaws of the Mt. Diablo Amateur Radio Club

BY-LAWS

MOUNT DIABLO AMATEUR RADIO CLUB

~~Amended January 20, 1989~~

~~Amended February 17, 1989~~

~~Amended February 20, 2009~~

~~Amended May 15, 2010~~

~~Amended August 21, 2010~~

~~Amended August 21, 2015~~

~~Amended November 18, 2016~~

~~Amended March 15, 2019~~

PREAMBLE

The Mount Diablo Amateur Radio Club has been organized for public and charitable purposes, specifically as an educational and scientific organization as defined and limited by U.S. Internal Revenue Code §501(c)(3). The specific educational, scientific and public welfare purposes of this Corporation are as defined in Article II of the Articles of Incorporation.

This Corporation is organized under the Nonprofit Public Benefit Corporation Law of the State of California, California Corporations Code TITLE 1, DIVISION 2, PART 2 and is not organized for the private gain of any person.

ARTICLE I – NAME, OFFICERS AND DIRECTORS

Section 1. NAME

This Corporation shall be known as the "Mount Diablo Amateur Radio Club", a California non-stock nonprofit public benefit Corporation.

Section 2. OFFICERS

The officers shall consist of a President, Vice President, Secretary and Treasurer. All terms of office shall be one year.

Section 3. DIRECTORS ~~AND EMERGENCY COORDINATOR~~

In addition there shall be four Directors-At-Large and a fifth Director designated the Emergency Coordinator. Two Directors shall be elected each even-numbered year for a term of two years. The second two Directors shall be elected in odd-numbered years for a term of two years. The term of office of the Emergency Coordinator shall be for one year.

Section 4. QUALIFICATIONS

The Officers, Directors and Emergency Coordinator shall be elected from the membership and shall be Amateur Radio operators licensed by the United States of America.

Section 5. ELECTION

Newly elected officers and directors shall take office on the first day of January.

ARTICLE II - DUTIES AND AUTHORITY

Section 1. PRESIDENT

1. Duties shall be to call and preside over all official meetings.
2. Shall appoint all committee chairpersons.

Section 2. VICE PRESIDENT

1. Duties shall be to assist the President in the discharge of the President's duties and to preside in the President's absence.
2. Shall also be the program chairperson.

Section 3. SECRETARY.

1. Shall record the minutes of all official meetings and maintain a record of each for inspection by Club members.
2. Shall execute all necessary correspondence.
3. Shall maintain all ~~elubClub officialhistorical~~ records.

Section 4. TREASURER

1. Shall act as the Principal Financial Officer of the ~~elubClub~~; be custodian of all ~~elubClub~~ funds; keep complete and accurate records of the receipt and disbursement of such funds.
2. Shall maintain a true and complete account of all ~~elubClub~~ assets and liabilities including capital items and prepare formal written reports as of June 30 and December 31. These reports shall be published in the Club newsletter.

3. Shall report the financial condition of the ~~elubClub~~ at each general membership meeting.
4. Shall be responsible for the preparation of all necessary tax filings with city, county, state and federal jurisdictions for the Board of Directors.
5. Shall prepare for Board of Director's approval, an annual budget of income and expense of the ~~elubClub~~ and its committees and groups. Shall arrange to have the budget published in the Club newsletter no later than the February issue.

Section 5. EMERGENCY COORDINATOR

1. Shall coordinate ~~elubClub~~ activities with RACES/ARES, the county Auxiliary Communication Service (ACS) and other public safety and emergency response officials.
2. Shall maintain all records of information pertaining to those activities.

Section 6. BOARD OF DIRECTORS

1. The Board of Directors shall be voting members of the Board, and are expected to attend all Board meetings.
2. The Board of Directors shall meet and conduct the business of the ~~C~~orporation. Minutes of all General Membership meetings and Board of Director's meetings shall be published by the secretary in the Club newsletter.
3. The Board of Directors shall be empowered to authorize payment of any bills not exceeding \$1,000 that are not an approved budget item and shall be empowered to authorize payment of increases in budgeted items that do not increase by more than \$1,000.
4. The Board of Directors may appoint a duly qualified regular ~~elubClub~~ member to fill out the unexpired term of any office vacated, including but not limited to, by expiration of term, resignation, death or removal.
5. Officers and Directors may be removed for cause including but not limited to absence, neglect of duty or misuse of office upon recommendation by a majority of the Board of Directors and a two-thirds affirmative vote by the members present at the following General Membership Meeting.

ARTICLE III – MEETINGS

Section 1. MEMBERSHIP MEETINGS Page 7

Regular meetings of the membership shall be held on the third Friday of each month, or at other times, when a Special Meeting is called by the President or by written request to the Board of Directors signed by five General Members of the Corporation.

Section 2. MEETINGS OF THE BOARD OF DIRECTORS

Regular meetings of the Board of Directors shall be held on the first Monday of each month, or at other times, when a Special Meeting is called by the ~~president~~President or a quorum of the Board of Directors.

Section 3. MEETINGS CONDUCTED UNDER ROBERT'S RULES OF ORDER.

All meetings of the Corporation, including meetings of the membership, Board of Directors and committees shall be conducted in accordance with the current edition of *Robert's Rules of Order Newly Revised* in all cases to which they are applicable and in which they are not inconsistent with these bylaws and any special rules of order the Corporation may adopt.

Section 4. QUORUM

A quorum at all membership meetings shall ~~be composed~~ ~~prise ten percent~~ of the General Membership present ~~at that meeting~~. A quorum at all meetings of the Board of Directors shall comprise fifty percent of the officers and directors in office.

Section 5. ELECTRONIC MEETINGS

1. For the purposes of this Section, "Electronic Meeting" shall be defined as a meeting in which one or more participants are not physically present in one room or area; rather they communicate with the other participants via electronic means, such as the internet or telephone. Such meetings must provide, at a minimum, for simultaneous two-way voice communication among all participants.

2. Electronic Meetings shall not require the use of special equipment or software available only to certain persons or requiring financial expenditure by the attendees to use.

3. Notices of Electronic Meetings must include an adequate description of how to participate; such as a telephone number for teleconferences, web address for web conferences, password or meeting ID for all methods, etc.

4. Persons unable to be physically present at a Regular or Special Meeting of the Membership, Board of Directors or any committee may, at the discretion of the meeting's chair, attend via electronic means as described in Item 1 above. Such persons shall be considered to be in attendance for the purposes of a quorum and for voting.

5. Should business arise for the Board of Directors or any committee that requires action prior to the next Regular meeting of that body, the chair may call and conduct a Special Meeting as an Electronic Meeting. Such Special Electronic Meetings shall allow, but not require, a central location for participants to attend in person. All attendees shall be considered to be in attendance for the purposes of a quorum and for voting.

6. Electronic Meetings may be conducted at the discretion of the meeting's chair. Nothing in this Section shall be construed as to require that any meeting of the Membership, Board of Directors or any committee be provided with the facilities for an Electronic Meeting, or that any attendee has the right to attend any meeting by electronic means.

ARTICLE IV – FINANCE

Section 1. ANNUAL DUES

1. Any changes in the annual dues shall be voted upon by the Board of Directors and approved by a simple majority of the membership at a regular membership meeting. A proposal to revise the dues shall be published in a mailing to the members, one month before the membership vote.

Section 2. NO ASSESSMENTS

1. Club expenses may be defrayed by dues, donations, auctions or benefits, but not by assessment.

Section 3. AUTHORIZED SIGNATURES

1. All authorized checks shall be signed by the Treasurer, or any other officers designated by the Board of Directors.

Section 4. NON-BUDGETED EXPENSES

1. Motions to expend non-budgeted ~~club~~Club funds shall normally be presented to the Board of Directors prior to presentation to the membership at a Regular or Special Meeting.

Section 5. EXPENSES PROPOSED AT MEMBERSHIP MEETINGS

1. Motions made at a regular membership meeting to expend funds not included in the budget shall not be acted upon at that meeting. Authorization to spend the proposed money shall be referred to the Board of Directors and no expenditure shall be made without their affirmative vote.

ARTICLE V – MEMBERSHIP

Section 1. GENERAL MEMBERSHIP

1. Any person is eligible for General Membership regardless of race, creed, sex, or national origin and the like. Each General Member is entitled to vote at all Regular and Special Meetings.

Section 2. ADDITIONAL FAMILY MEMBERSHIP

1. Additional family members of General Members in good standing may qualify as General Members without payment of dues or for discounted membership dues as determined by the Board of Directors.

2. Additional family members must reside at the same address and one copy of the Club newsletter will be mailed to that family address unless otherwise requested.

Section 3. STUDENT MEMBERSHIP

1. The Board of Directors may establish Student Memberships, designating from time to time the amount and payment of dues. The qualifications for Student Membership and voting privileges, rights and obligations shall determined by the Board of Directors.

Section 4. HONORARY MEMBERSHIP

1. The Board of Directors may award a non-voting Honorary Membership to persons of merit. An Honorary Member shall not be obliged to pay dues.

Section 5. LIFE MEMBERSHIP

1. The Board of Directors may award Life Memberships. A Life Member shall not be obliged to pay dues. A Life Member shall have the same voting privileges, rights and obligations as a General Member.

Section 6. REVOCATION

1. Membership may be revoked or other lesser disciplinary action taken against a member after a review and a recommendation by the Board of Directors and a majority vote of the membership for any of the following:

- Violations of the Radio Laws, Regulations and Treaties of the United States of America, including intentional and/or malicious radio interference.
- Non-payment of dues.
- Failure to abide by these By-Laws.
- Member misconduct.

Section 7. REINSTATEMENT

1. A member whose membership has been revoked may apply for reinstatement of membership not sooner than one year from the date of the revocation.

Section 8. DELINQUENCY

1. Dues delinquent after January 31 automatically stand the member suspended. Reinstatement may be made upon payment of dues. A member in good standing shall be one whose membership has not been suspended nor revoked.

Section 9. MEMBER MISCONDUCT

Member misconduct shall include, but shall not be limited to:

- a) Financial misconduct, fraud, embezzlement or theft of Corporation funds and /or property.
- b) Intentional conduct creating legal liability for the Corporation.
- c) Violent, threatening, and/or disorderly conduct.
- d) Bringing disrepute to the Corporation including but not limited to threats, harassment and insults to members and to the public at large.
- e) Violation of criminal laws.
- f) Attempts to disrupt orderly procedure or failure to abide by rulings from the presiding officer or chairman at Membership, Board and committee meetings, including refusal to comply when called out of order.

ARTICLE VI - ELECTION COMMITTEE

Section 1. COMMITTEE MEMBERS

The Election Committee shall consist of at least three members appointed by the President no later than the August General Membership meeting.

Section 2. DUTIES

It shall be the duties of the Election Committee to procure candidates for each office, qualify nominated members as to membership and willingness to accept the nomination, ensure ballots are properly and timely provided to all members in good standing, receive and tabulate ballots, and announce the results of the election at the November meeting.

Section 3. NOMINATIONS

~~Nominations in all forms to shall be presented at the September meeting.~~ Any member in good standing with a United States Amateur Radio license may be proposed for nomination.

Nominations may be made via email to a member of the Election Committee and from the floor at the September and, October and November meetings. At both of these meetings, a member of the Election Committee will announce the current nominees. Nominations will be accepted up to and including October 31st and closed afterwards. The names of those nominated prior to the publication October publication deadline shall be published in the October Club newsletter; those nominated up to and including October 31st will be published in the and November cClub newsletters.

Section 4. BALLOTING

A ballot shall be provided to each member eligible to vote at least two weeks prior to the November meeting, by postal mail or electronically via an application on the internet (if made available) or by members email. If electronically, an option to print a paper ballot shall also be provided. Members that requested postal mail delivery of the Club's newsletter and directory shall be sent a ballot by postal mail. Printed Ballots shall also be made available for voting at the November meeting.

At each member's option, completed ballots may be submitted by:

- (a) postal mail, with receipt required at the address on the ballot no later than two days before the November meeting;
- (b) electronically, such as by email or via an application on the internet (if made available), with submission made no later than two days before the November meeting; or
- (c) in person at the November meeting.

Section 5. Office Vacancies

In the event that an office is vacant post-election, the Board of Directors may appoint a duly qualified regular Club member to fill that office.

Section 6. Special Election

In the event that the board is disbanded, a special election will be conducted to establish a new board.

ARTICLE VII - CONFLICTS OF INTEREST POLICY

Section 1. CONFLICTS WITH INTEREST OF THIS CORPORATION PROHIBITED.

All actions, deliberations, decisions and actions by the Board of Directors, the individual officers, directors, committee chairmen and members of this Corporation shall be made in the sole interests of this Corporation and for the Corporation's educational and scientific purposes as defined and limited by U.S. Internal Revenue Code §501(c)(3).

Section 2. PERSONAL FINANCIAL BENEFIT PROHIBITED

Individual officers, directors, committee chairmen and members are prohibited from taking any action to achieve a personal financial benefit or for a third person or other entity, including another nonprofit or for profit organization.

Section 3. DUTY TO RECUSE

Any officer, director, committee chairman or member shall promptly disclose the existence of any potential conflict of interest on any matter in which they have a material financial interest, or whether they are an officer or director of another entity that may reasonably be affected by the outcome of the vote. In such event, they and shall recuse himself or herself from being present for discussion or voting on theany matter, ~~in which they have a material financial interest, or they are an officer or director of another entity that may reasonably be affected by the outcome of the vote.~~

ARTICLE VIII - BY-LAWS AMENDMENTS

Section 1. PROCEDURE

An amendment to the By-Laws may be initiated by the Board of Directors or by written request to the Board of Directors signed by five members of the Celub. In order to be effective, the proposed amendment shall be presented to the Board of Directors, published by mail to the members or published in the Club newsletter by mail and/or electronic means, and approved by

two-thirds of the members present at the next regular membership meeting following such publication.

ARTICLE IX - PUBLICATION

Section 1. OFFICIAL PUBLICATION

1. There shall be an official publication maintained by the Corporation in the form of a newsletter to be published monthly and called the "Carrier". The editor and staff shall be appointed by the Board.

2. The financing of the Club newsletter shall be from the Corporation's treasury.

Section 2. PUBLICATION BY ELECTRONIC MEANS

1. ~~1.~~ All publications, notices and mailings to the members may be made by electronic means.

Amended January 20, 1989

Amended February 17, 1989

Amended February 20, 2009

Amended May 15, 2010

Amended August 21, 2010

Amended August 21, 2015

Amended November 18, 2016

Amended March 15, 2019



Earl Brown, WB6JAF

Alan Dampog (license pending)

Alexandru Delamoreanu (license pending)

Michael Papp KO6AGA

If you hear these new members on the air, please welcome them to our club.

— Jan Kulisek, KM6NFC, Membership Chair

UPCOMING PUBLIC SERVICE EVENTS

Walnut Festival Twilight Parade Not Confirmed

Saturday, September 16, 2023

Parade in downtown Walnut Creek

Radio Coordinator: Pete Harris, KE6ZIW pharris125@comcast.net

Walnut Festival Person: Tami Lagamarcino

Firetrails 50M Confirmed

Saturday, September 30, 2023

Running Race in the Oakland Hills

Race Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Scena Performance <adam.ray@scenaperformance.com>

Mt Diablo Challenge Bike Ride Confirmed

Sunday, October 1, 2023

Bike ride up Mount Diablo, Alamo, CA

Race Coordinator: Larry Loomer, KI6LNB <larylloomer@yahoo.com>

Valley Spokesmen Bicycle Club, Raghu Venkata, event lead

<http://www.valleyspokesmen.org/>

Diablo Summit Stomp Confirmed

Saturday, October 21, 2023

Running Race from Castle Rock Park, Walnut Creek, CA

Radio Coordinator: Larry Loomer KI6LNB <larylloomer@yahoo.com>

Brazen Racing <http://brazenracing.com/r/summitstompmain.html>



ATTENTION, ALL PUBLIC SERVICE HAMS: OUR NEXT PUBLIC SERVICE EVENT OF THE YEAR IS HERE!!

The Firetrails 50M running race in the Oakland and Berkeley Hills has been scheduled for September 30, 2023.

The Firetrails 50M running race continues in our new home at Cull Canyon Regional Park, which is about a 5 minute drive from the old start/finish at Lake Chabot. The race will turn around at Skyline Gate, and return to Cull Canyon Regional Park.

We are looking for experienced communicators and beginning hams who will be teamed up at one of seven check points along the running route. We will report on the bib numbers of the first three male runners and the first three female runners, as well as the bib numbers of the last five runners.

We will also report to net control the bib numbers of any dropped runners and report on the supply needs of the aid station to which we are assigned.

All assignment locations are drive-up locations, or very close to parking lot locations.

We have been asked to provide communications for this event since cell phone coverage along the race route is weak to non-existent. Reliable communication is a must for this type of activity in this remote area.

Public service events are a good way for hams of all experience levels to Get-on-the-Air, to practice your communication talents, to serve a worthwhile cause, and to learn and practice the protocols which exist for effective emergency communication.

To be added to the ham radio roster, please contact Larry Loomer KI6LNB, at larylloomer@yahoo.com.

Thank you for considering joining us for this event.

73,
Larry Loomer, KI6LNB



PACIFICON 2023 is on!! October 20-22, 2023

The PACIFICON team has been hard at work already, securing the San Ramon Marriott Hotel, planning and preparing for PACIFICON 2023.

What makes PACIFICON so great is the involvement of communities and entities that come together, share ideas, have discussions, and are involved in this amazing convention. We wish and hope we can continue this endeavor, but we need your help. The number of people volunteering is less than what we need.

It is only through the efforts of individuals who donate their time and energy to this convention that makes PACIFICON so special.

We hold 1 meeting a month (the 2nd Wednesday of every month) both in person and by zoom. (long distance can no longer keep us apart). It usually lasts about 2 hours.

We are in urgent need of a Forums Coordinator. The Forums Coordinator makes contact with various persons who speak or teach through the convention and then coordinating with the team, plans the various times and placements of speakers. We have a historical list of good previous speakers, some of whom very likely would be willing to do their presentations, or modified versions, again if contacted about it. You don't need to be a licensed amateur or a member of MDARC to participate as a volunteer.

If you are tired of the same speakers or want different information given during this convention then it is time to get involved. Sitting on the sidelines and complaining about something doesn't make change. You need to get involved!!!

Afraid?? Never done anything like it?? No time?? I can tell you that the PACIFICON team is one of the best teams to volunteer for. The knowledge that has accumulated through the years is mind blowing and every person on the team is willing to help you out in any way possible. There is also written documentation created by the previous chair, to follow and guide you through the process, and changes that you can make to help make PACIFICON fabulous. Don't be afraid!!!

Want to check things out first? I invite you to join our meetings by zoom or in person. Just send me an email and I will send you a link to join our next meeting or give you an address for the meeting if you wish to come in person.

Also, this year celebrates the 100th anniversary of the first meeting of the Royal Order of the Wouff Hong which is traditionally put on at ARRL Division / National conventions. Some of our six 6 actors and other assistant staff for this have been doing it since MDARC took over PACIFICON in 1992 with pre-recorded audio for this 45 minute meeting. For the 100th meeting we would like to do this with lines being memorized instead of using pre-recorded audio. This year, we would also like to start building a new team to take this over for future PACIFICON conventions. We need to come up with replacement costumes as the other ones that have been used since 1992. If we start now, it should be easy to memorize the parts and come up with costumes and the few simple props that are needed. You must be a licensed ham to be an actor. We will hold Zoom meetings to work on lines, and will have 1 or 2 in-person rehearsals in September and October (most likely in Lafayette). Please contact Lauren Styles, WA6CIE, at WA6CIE.HAM@GMAIL.COM if you can help with this.

So in closing.... If you want PACIFICON to continue and thrive, then get involved, because PACIFICON is not sustainable without volunteers.

Thank you, 73,

Julie Mah, WJ8MAH
2023 PACIFICON Chair

Low-Cost Receivers for Digital Amateur Television Reception Available For Sale from Club Member KA3VDT

These are DVB-S2 receivers pre-programmed for our club's 1.2 GHz W6CX DATV repeater frequencies

Connect a 1.2 GHZ directional antenna, aim it at Mount Diablo's North Peak and watch the over the air repeater signal on your video monitor

Please contact Will Roberts at ka3vdt@gmail.com or visit <http://laser66.com/ham/>

To purchase a DATV transmitter, contact Fred Coe, WB6ASU, at wb6asu@icloud.com

Videos from the Auxiliary Classes are Now Available at:

<https://www.mdarc.org/education-and-testing/class-details>

Why Does Ham Radio Work "When all else fails"?

by Kristen McIntyre, K6WX, ARRL Pacific Division Director

https://drive.google.com/file/d/1kyOBqpTvG66mW9wSRSbMB16Q3ZbdFOBS/view?usp=drive_link

Phones, Fires, and Failures

by Alan Thompson, W6WN

https://drive.google.com/file/d/1humFgT-3Swhg3Fset1b-gYOPLw24Bu_J/view?usp=drive_link

Grant Bowman, K6CBK

ESTATE SALE

Astron VS-35M 2 to 15 volts 35 amp power supply \$160

Astron RS-35M 35 amp power supply & 180

Ameritron AL-811H linear amplifier \$500

Drake L-4B linear amplifier with low hour Machlett 3-500ZG tubes \$800

Kenwood IF-232C computer interface \$20

Kenwood TS-2000 HF/VHF/UHF Transceiver \$800

Kenwood TS-450S HF Transceiver \$450

Kenwood PS-52 20 amp power supply \$180

Kenwood SP-23 external speaker for TS-450 \$100

Yaesu G-800DXA rotator controller only (no rotator) \$80

Diamond MX-72H HF-VHF/UHF Duplexer \$30

Vibroplex Keyer \$90

McElroy semi-automatic telegraph key \$150

Contact:

Kim Leong, N6YJ, 925-575-1941 or n6yj.qth@gmail.com

ARRLB017 ARRL Files Comments Against "Seriously Flawed" HF Rules Petition

ARRL, as part of its mission to protect Amateur Radio, has filed comments against a proposal that would introduce high-power digital communications to the shortwave spectrum that in many instances is immediately adjacent to the Amateur HF bands.

The "Shortwave Modernization Coalition" (SMC), which represents certain high-frequency stock trading interests, filed the petition with the Federal Communications Commission (FCC). ARRL responded on behalf of its members and the 760,000 licensees of the Amateur Radio Service in the US.

The petition can be found online at,
<https://www.fcc.gov/ecfs/document/1042840187330/1> .

The ARRL Laboratory performed a detailed technical analysis over several months to determine if the proposed rules would affect operations on the bands allocated to Radio Amateurs that are inter-mixed with the Part 90 bands in the spectrum in question.

ARRL's analysis determined that, if the proposed rules are adopted, the new operations inevitably will cause significant harmful interference to many users of adjacent and nearby spectrum, including Amateur Radio licensees. Ed Hare, W1RFI, a 37-year veteran of the ARRL Lab and internationally recognized expert on radio frequency interference, was the principal investigator on the study. Hare concluded the petition should not be granted. "This petition seeks to put 50 kHz wide, 20,000-watt signals immediately next to seven different amateur bands with weaker protections against interference than required in other services," said Hare.

In its formal opposition, ARRL stated, "That destructive interference would result if operations commenced using anything close to the proposed maximum levels."

ARRL's filed comments highlight flawed analysis and incomplete data submitted by the petitioners. It noted the petitioners "...significantly understate the harmful interference that is not just likely, but certain, if the rules proposed by SMC are adopted as proposed. It is noteworthy that SMC's proposed rules would provide less protection than the much-lower power amateur radio transmitters are required to provide Part 90 receivers."

ARRL's opposition also noted that there was no reported tests conducted with Amateur or other affected stations, but referenced a spectrum capture in the Comments filed with the Dayton Group that showed actual interference into the Amateur 20-meter band from one of the High Frequency Trading experimental stations.

Part 90 HF rules currently authorize a maximum signal bandwidth equal to a voice communications channel, at up to 1000 W peak envelope power (PEP). The petition seeks multiplication of signal width, greater transmitted power, and weaker rules that protect users of adjacent spectrum. ARRL's comments expose the likely fallout:

"Incredibly, notwithstanding the significant increase in potential interference that would result from using digital schemes with 50 kHz bandwidths and 20,000 watts of power, SMC also proposes to substantially lessen the protections required to protect adjacent and neighboring licensees. SMC proposes [out-of-band emissions] limits that offer less protection than the existing Part 90 limits and would actually permit no attenuation (0 dB) at the edge of adjacent allocations, many of which are bands allocated to and heavily used in the Amateur Radio Service. Consistent with lessening protections while increasing the potential for harmful interference, SMC also proposes a lower limit for spurious emissions. SMC would reduce the existing protection of -73 dB for the applicable 1000-watt power limit to just -50 dB protection for their proposed 20,000-watt limit. Due to the much wider 50 kHz proposed bandwidth, the resulting interference would penetrate deep into the adjacent Amateur bands."

The proposal has been assigned FCC Docket No. RM-11953. While the period for commenting on the petition has now closed, replies to comments in the record may now be submitted.

Hundreds of licensed Radio Amateurs filed comments in the Docket, expressing overwhelming opposition to the proposal. Those interested may read ARRL's full comments and the results of the technical analysis, which are included in the filing. "If granted as written, this would be devastating to Amateur operation for many tens of kHz into our bands," said Hare.

ARRL will continue to advocate for its members and the Amateur Radio Service in this proceeding.

NNNN

/EX

MDARC General Meeting Minutes June 16, 2023

Held as hybrid Zoom and in-person meeting

- 1. Call to Order:** The meeting was called to order at 7:00 pm by the MDARC President Ed Morales KJ6KYT
 - a. Welcome to all: The President welcomed all attendees and indicated the positions of the emergency exits and restrooms.
 - b. Pledge of Allegiance: This was made by attendees.
 - c. Acknowledge new members: new members were acknowledged.
 - d. Acknowledge visitors: visitors were acknowledged.

- 2. Approval of Minutes from the Last Meeting:** Mike Warren W6MEW, seconded by Larry Bradley KK6QPE, proposed a motion to approve. The May 2023 minutes were unanimously approved.

3. Officer Reports:

- a. The President: Ed, KJ6KYT reported that he has received a report on how many transmitters and antennas we have on Mount Diablo South Peak, and it shows that we have less equipment than before. The report has been submitted to the subcommittee for review and they are planning to set up an in person meeting with the local representative of Everest (the Landlord) in July. During the meeting they will tell the story of MDARC and propose a new rate, based on the fact that we have much less equipment than is stated on the existing contract. In Ed's opinion, we need to pay much less than we are paying now although he does expect an escalation clause. He expects to have made progress by the end of July. There has been some discussion over email about calling each new member during the Thursday Net. This is not the case and since we have about 300 members, it is not possible to call all members in one session, due to the time constraints. Any member who wants to be part of the Net should get on the net and wait until the end when they can check in as a visitor. After checking in a number of times you can ask to be included in the roster. Ed made a special announcement about a volunteer role which is not related to radio. He stated that he is a commissioner with the Contra Costa County Hazardous Materials Commission and that there is an opening for a commissioner where the role is that of a General Public. The applicant needs to have some interest in hazardous materials and has to be in district 3 which is comprised of Antioch and Oakley. Anybody who is interested should contact Ed for details on how to apply.
- b. The Vice President: Vacant.
- c. The Secretary: Brian KM6NGS had no report.
- d. The Treasurer: Gene KG6EYE presented the financials for May 2023 as follows,
MDARC; Income \$794, Expenses \$1,680, Net Income -\$886, PACIFICON; Income \$4,535, Expenses \$405, Net Income \$4,130; Total Income; \$5,329. Total Expenses \$2,086. Total Net Income; \$3,244.
Account Balances; MDARC Checking \$32,018, MDARC Savings \$28,405, Total MDARC Checking and Savings \$60,423. Equipment Self-Insurance Fund \$60,709, Pacificon Checking Account \$24,231, Total Account Balances \$145,363. There were no questions for Gene.
- e. The Emergency Coordinator: Larry KI6LNB had no report under this section.
- f. Directors at Large: Mike W6MEW, Trevor WA6JAU, and Cal K6VT had nothing to report. Larry KK6QPE mentioned that Alan Thompson will be speaking at the Auxiliary class next week and that the next Amateur Extra class will be starting on June 27. Ed added that he is still searching for a speaker for the General Meeting at Pacificon.

4. Committee Reports – Standing:

- a. Education and Training: John Primus AF6RJ sent his report by email.
- b. Field Day: Larry KI6LNB reported that Field Day is coming up, in a week from tomorrow, at the Olympic High School. There will be a barbecue, License testing at 1pm, a getting on the air class at 10am, the MDARC van with a HF demonstration and an amateur TV demonstration, the communications trailer where demonstrations of FT8 and other digital methods will be demonstrated, an introduction to Field Day video produced by ARRL, a MESH telephone demonstration, and a WinLink demonstration by the Walnut Creek CERT group.
- c. License Testing: Larry KI6LNB reported that testing was not finished yet because there were two diehards still working on their tests.

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- d. **Membership:** Jan KM6NFC reported that the membership numbers are slowly creeping up and that the membership numbers are as follows; Current paying members 237, all members 283, new members this year 28, renewals last month 7, past due members 82 and 12 lifetime and honorary members.
- e. **PACIFICON:** Julie Mah WJ8MAH appealed for volunteers for PACIFICON especially for Vendors and Forums. She noted that some volunteers are doing 2 and 3 jobs which is not good. Volunteers will be supported by the PACIFICON team, so you are not on your own when you volunteer. If we do not get enough volunteers then we will not be able to have future PACIFICONs. Pacificon meetings can be attended via ZOOM so distance is not a problem.
- f. **Public Service:** Larry KI6LNB said that he will keep people informed of upcoming events via groups.io.

5. Unfinished Business: There was no unfinished business.

6. New Business: There was no new business.

7. Adjourn Business meeting: The business portion of the meeting was adjourned at 7:22 pm.

Respectfully submitted by
Brian Lotter, KM6NGS
Secretary, on July 19, 2023.

MDARC Board of Directors Meeting July 10, 2023

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:04 pm by Ed Morales, KJ6KYT after it was determined that there was a quorum for conducting Club business.

2. Roll Call: Attendees via Zoom screen shot: **Officers:** Ed Morales KJ6KYT, President; Brian Lotter KM6NGS, Secretary; Larry Loomer KI6LNB, Emergency Coordinator; Larry Bradley KK6QPE, Director at Large; Mike Warren W6MEW, Director at Large; Trevor Hall WA6JAU, Director at Large. **Committee Chairs/Coordinator:** Mike N6JGA; Jan KM6NFC. **Guests:** Dave WA6UHA; Barb K6WHY.

3. Approval of Minutes from Last Meeting: Mike W6MEW, seconded by Larry KK6QPE, proposed a motion to approve the May and June meeting minutes. The minutes were unanimously approved.

4. Adopt Tonight's Agenda: The agenda was approved.

5. Officer reports:

- a. President Ed Morales KJ6KYT – Ed announced that he is planning to move to Portland by March 1st 2024.
- b. Vice-President (Vacant) – No report.
- c. Secretary Brian Lotter KM6NGS – Had no report.
- d. Treasurer Gene Sylls, KG6EYE – Sent his report by email.

6. Emergency Coordinator Report: Larry KI6LNB had no report but Ed complemented him on the great job that he did on organizing Field Day.

7. Directors at large reports: Mike Warren, W6MEW – Had no report. Trevor Hal, WA6JAU – Had no report. Larry Bradley, KK6QPE – Had no report. Cal Vasquez, K6VT – Was absent.

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8. Committee Reports:

- a. Auction: No report was expected.
- b. Communications Trailer: Mike reported that the communications trailer worked well on Field Day, and that he made 70 contacts with FT8 on 20 and 40 meters. Power was supplied by a number of generators since the Solar Trailer was not available. Ed remarked that he was impressed by the AARL video about HAM Radio, that was played in a continuous loop.
- c. Digital Media: Mike Patterson said that everything is working well and that Barb has been bombarding them with PACIFICON stuff.
- d. Education and Training: John AF6RJ sent his report by email. Mike W6MEW added that John Kearny will not be doing duties as a Zoom expert for classes and meetings after the end of the year. He requested that an announcement be made in upcoming meetings calling for volunteers.
- f. Election Committee: No report was expected.
- g. Field Day: Larry KI6LNB reported that they had an AARL video that was played as discussed earlier, our STEM winner from the Los Medanos College STEM Fair demonstrated his Tracking System for keeping his Solar panel pointed at the sun, a GOTA class hosted by Pete Harris, license testing yielded 7 new or upgraded candidates, Matheson Ott did the barbecue cooking, Jim Tittle brought the van, Mathew did some operating from the van, John Kearney demonstrated his MESH telephone system, a Concord City Councilwoman visited, Janet the Manager of the MDUSD maintenance department visited, security had two quiet nights and Concord PD did some drive bys.
- h. Holiday Banquet: No report was expected.
- i. License Testing: This was covered under g. above.
- j. Membership: Jan KM6NFC shared his screen with membership numbers. Paying members 240, All current members 286, New members 28, Renewals in the last 30 days 2, Past due 80, Lifetime and Honorary 12. Google has added another layer of security for mass emails which prevented Jan from sending messages to multiple contacts. He will look into this issue further.
- k. Mesh Committee: Mike W6MEW reported that there are a few new nodes in central county but they have not joined groups.io yet. There is a new tunnel out of east county and Mike will send emails to east county nodes to see if he can get them connected to the rest of the system.
- l. Outreach: Dick Wade WM6G was not present.
- m. PACIFICON: Barb K6WHY announced that, while she is doing Forums, Hotel Liaison, and Vendors for this Year, she will not be available to do any of them next year. Barb also stated that it was announced at the last PACIFICON meeting that the Deebles will not be doing Registration after this PACIFICON. She added that, if the Board decides not to do PACIFICON after this year, then the hotel reservation can be cancelled, with, no penalty, up until approximately October 15th this year. After that date, it will cost about \$23,000.00 to cancel. There was a lot of discussion about how to train any new volunteers to replace existing volunteers. Ed agreed to contact Julie about a special meeting to deal with this issue. Barb added that registrations are slower this year and that it looks like 2021 rather than 2022. Trevor added that most of the antenna forum speakers have moved out of state and will be presenting on Zoom. Barb added that she is getting a better response on forums than on vendors. There was further discussion about possible support from ARRL and Ed agreed to contact Kristen McIntyre to discuss this.
- n. Programs: Charles King, K3CMK was not present but Ed reported that he is putting a panel together for PACIFICON on Emergency Communications. There is no speaker for the November meeting yet, so we will have an open forum meeting or get our Los Medanos College STEM Fair winner to make a presentation.
- o. Public Service: Larry KI6LNB reported that the next event will be the Skyline 50k running race on August 6th.
- p. Radio Lending Library: There was no report.
- q. Rocky Ridge Repeater (Tech): Trevor WA6JAU stated that there was no committee meeting this month so there was nothing to report. Mike W6MEW thanked Trevor WA6JAU for the fast fix on the outage of the repeater. It was reported that there has been some interference on the repeater from unwanted users.
- r. Scholarship: There was no report.

9. Future Meetings:

General Meeting 07/21/2023 on Zoom and In-person.

Board Meeting 08/07/2023 on Zoom only.

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12. Adjournment:

Mike W6MEW seconded by Larry KK6QPE proposed a motion to adjourn.

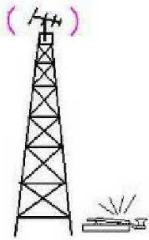
Meeting Adjourned at 8:30

Respectfully submitted by

Brian Lotter KM6NGS

Secretary, on August 3, 2023.

These meeting minutes were signed digitally due to the digital meeting.



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FT-710 Aess | HF/50MHz 100W SDR Transceiver

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- Rugged & Compact • Crystal Clear Front Panel Audio • 220 Memory Channels • Weather Broadcast Reception • Severe Weather Alert Feature

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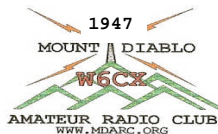
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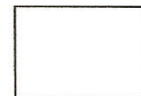
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W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.78- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Digital Amateur Television Net 147.060+

Club Voice Repeaters

147.060 MHz + / PL 100Hz

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

DMR Repeater 144.925 offset plus 2.5 MHz color code 1

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <http://w6cxatv.mdarc.org>

YouTube Channel: Media MDARC

Contra Costa County Emergency Communications Nets Every Thursday

6:30 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

August and September 2023 Club Calendar

Friday August 18, 2023	7:00pm MDARC General Meeting - Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette Also available on zoom.us via link sent from groups.io
Saturday September 2, 2023	MDARC Technical Committee Meeting - CANCELED
Monday September 11, 2023	7:00pm MDARC Board of Directors Meeting - VIA VIDEO CONFERENCE
Friday September 15, 2023	7:00pm MDARC General Meeting - Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette